

Title (en)
APPARATUS FOR THERMAL IMAGING

Title (de)
VORRICHTUNG ZUR THERMISCHEN ABBILDUNG

Title (fr)
APPAREIL DE THERMOGRAPHIE

Publication
EP 1588136 A2 20051026 (EN)

Application
EP 04707355 A 20040202

Priority
• US 2004002762 W 20040202
• US 44429203 P 20030131

Abstract (en)
[origin: WO2004069547A2] A device for thermal imaging of target surfaces includes a housing (12) with an opening (14) for directing incident infrared rays along an optical path through an optical assembly (40) optimized to have a spectral band width of 3 to 14um, onto a UFPA detector (48) having a spectral transmission window (84) which has a bandwidth 3 to 14um sufficient to pass all infrared rays of interest over a broad temperature range. Filter means (44) including at least two filters (78, 80), having a band width in the ranges of 3 to 8um and 8 to 14um, respectively, allow for the placement of either specialized IR filter in the optical path so as to attenuate and/or pass certain wavelengths of the infrared rays depending on the specific application in a broad range between -40°C to 2000°C. The device allows for thermal imaging even in daytime applications in sunlight.

IPC 1-7
G01J 5/00

IPC 8 full level
G01J 5/00 (2006.01); **G01J 5/60** (2006.01); **G01N 25/72** (2006.01)

CPC (source: EP US)
G01J 5/0044 (2013.01 - EP); **G01J 5/02** (2013.01 - EP); **G01J 5/0265** (2013.01 - EP); **G01J 5/041** (2013.01 - EP); **G01J 5/48** (2013.01 - US); **G01J 5/602** (2013.01 - EP); **H04N 23/23** (2023.01 - EP); **G01J 2005/0077** (2013.01 - EP)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004069547 A2 20040819; **WO 2004069547 A3 20050203**; EP 1588136 A2 20051026; EP 1588136 A4 20060322; JP 2006518464 A 20060810

DOCDB simple family (application)
US 2004002762 W 20040202; EP 04707355 A 20040202; JP 2006503212 A 20040202